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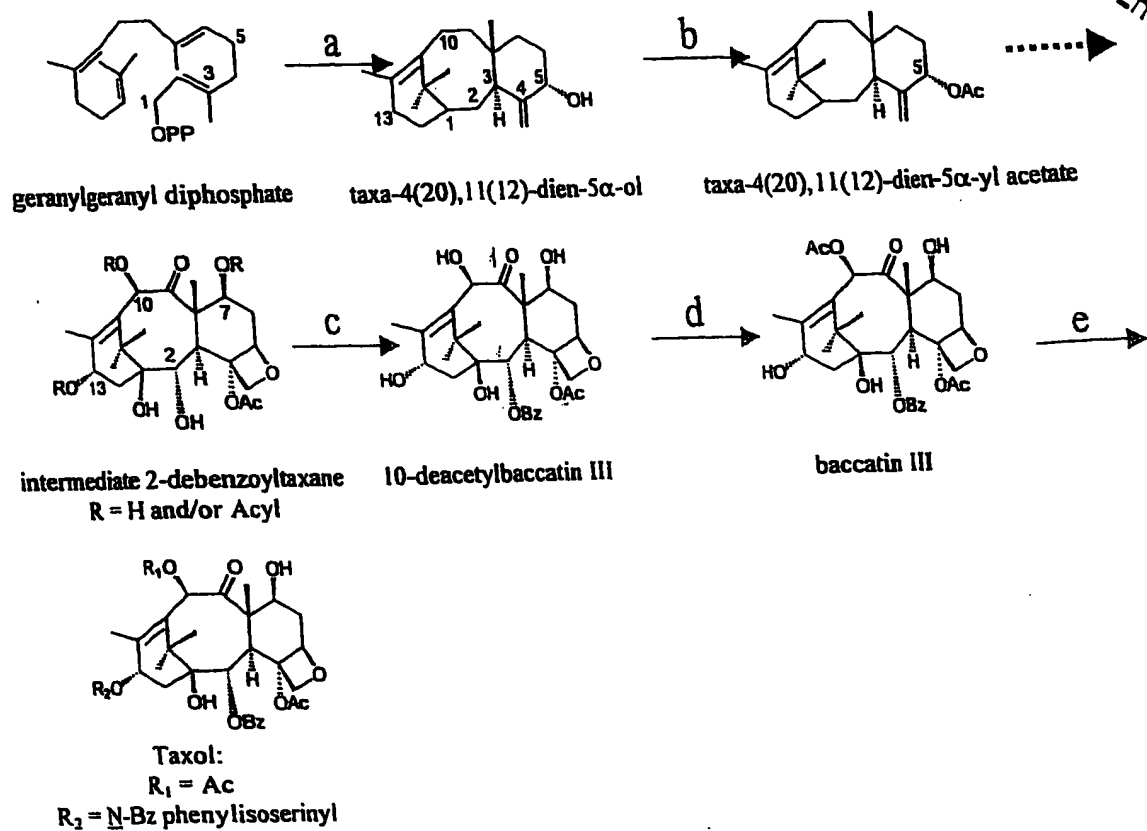


FIG. 1



Debra A. Gordon, Ph.D.  
Application No. 09/866,570  
Filed: May 25, 2001  
Our Ref. No. 4630-59094  
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DEACETYLBACCATIN III O ACETYL TRANSFERASE AND  
RELATED PRODUCTS  
Inventor(s): Croteau *et al.*  
Date of Deposit: September 8, 2003

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Tryptic Peptide Fragment	Peptide Sequence
SEQ ID NO: 29	TTLQLSSIDNLPGVR
SEQ ID NO: 30	ILVYYPPFAGR
SEQ ID NO: 31	FTCGGFVVGVSF
SEQ ID NO: 32	KGLAEIARGEVK
SEQ ID NO: 33	NLPNDTNPSSGYYGN

**FIG. 2**



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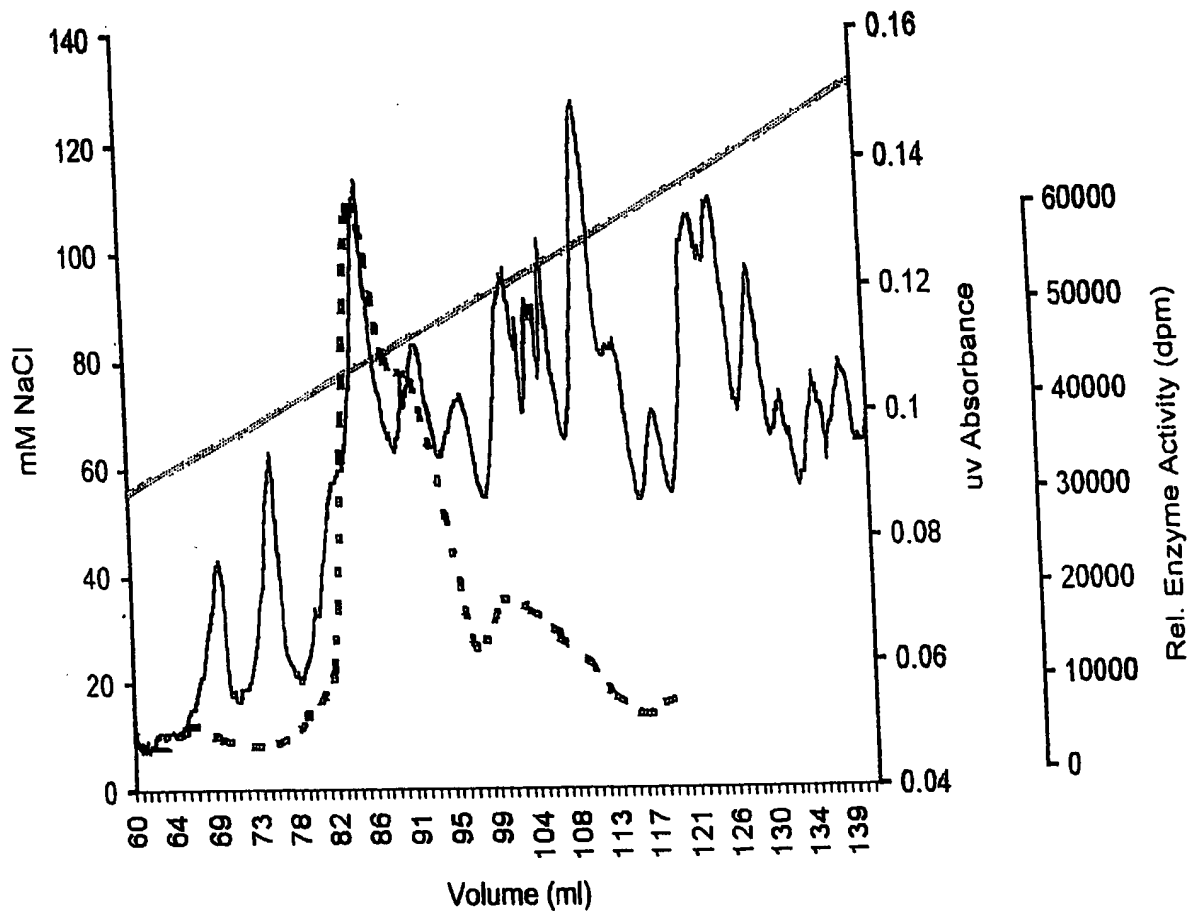


FIG. 3A



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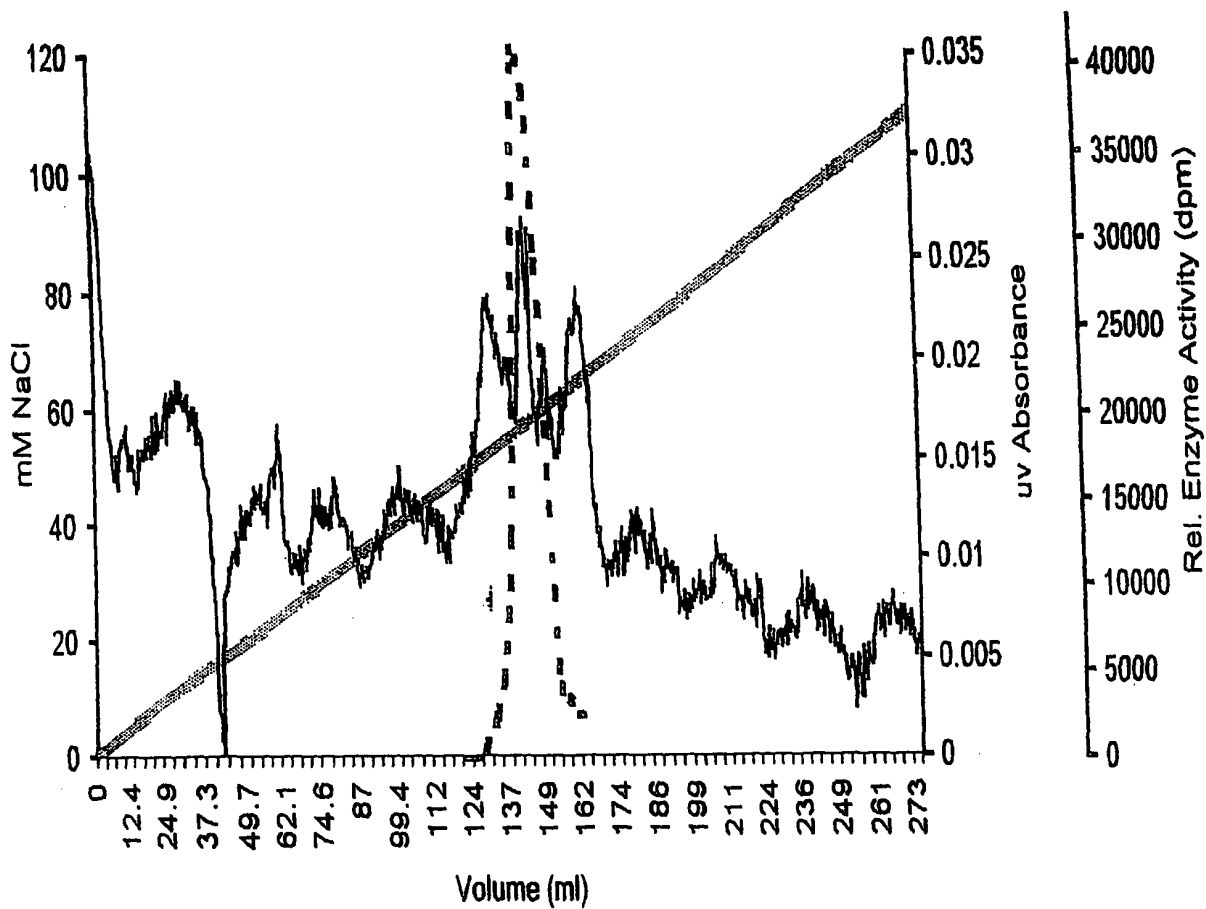


FIG. 3B

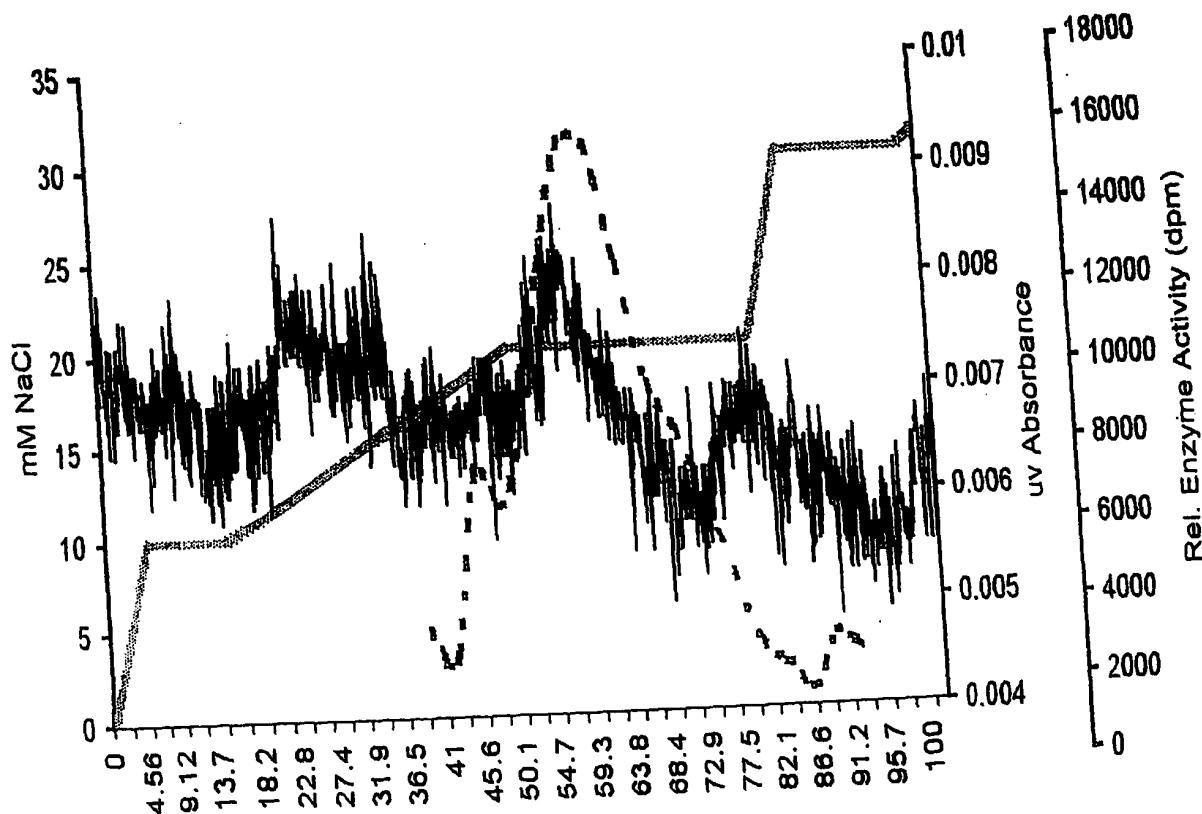
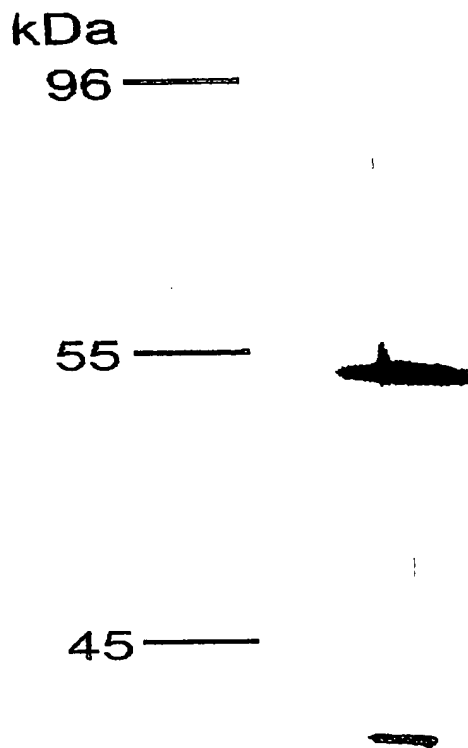


FIG. 3C



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**FIG. 3D**



FROM PEPTIDE FRAGMENT SEQUENCE 2

NH2-	I	L	V	Y	Y	P	P	-COOH	(Residues 1-7 of SEQ ID NO: 30)
5'	ATI	CTI	GTI	TAT	TAT	CCI	CC	3'	AT-FOR1 (SEQ ID NO: 34)
		T	C	C	C	C			
			A			A			

NH2-	Y	Y	P	P	F	A	G	-COOH	(Residues 4-10 of SEQ ID NO: 30)
5'	TAT	TAT	CCI	CCI	TTT	GCI	GG	3'	AT-FOR2 (SEQ ID NO: 35)
	C	C	C	C	C	C			
			A	A		A			

FROM SEQUENCE HOMOLGY CONSIDERATIONS

NH2-	F	Y	P	F	A	G	R	-COOH	(SEQ ID NO: 39)
5'	TTC	TAT	CCI	TTC	GCI	GGI	AG	3'	AT-FOR3 (SEQ ID NO: 36)
	T	C		T	C	C			
					A	A			

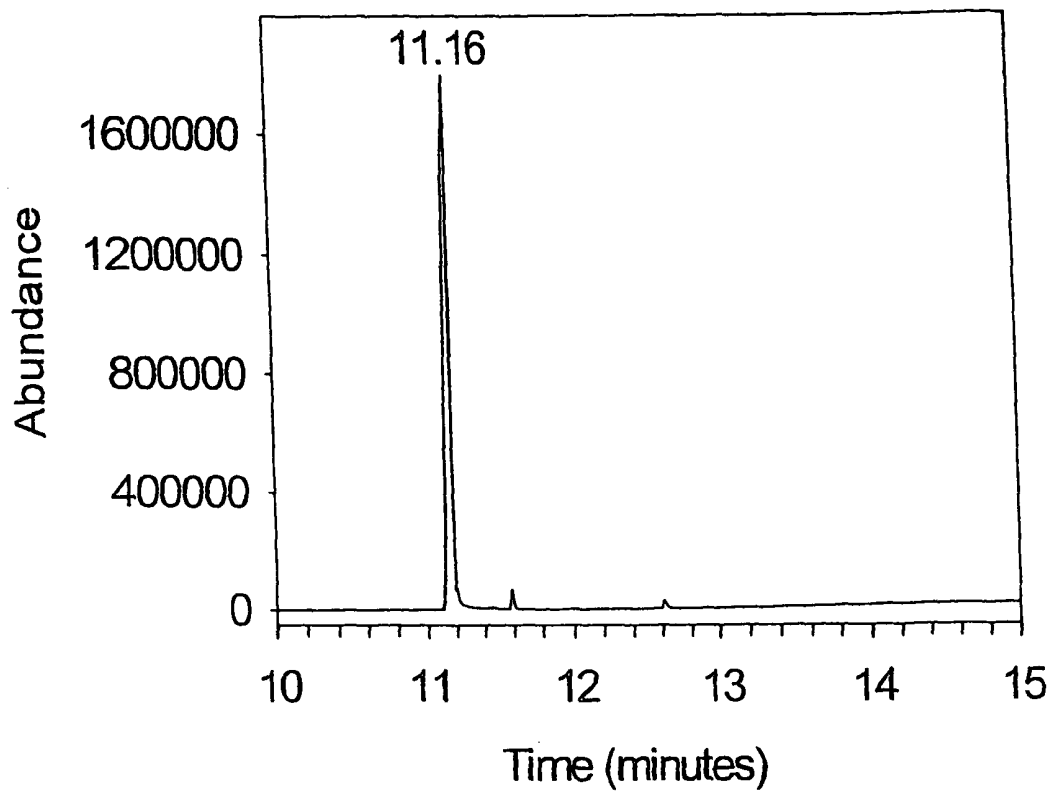
NH2-	Y	Y	P	L	A	G	R	-COOH	(SEQ ID NO: 40)
5'	TAC	TAT	CCI	TTI	GCI	GGI	AG	3'	AT-FOR4 (SEQ ID NO: 37)
	T	C		C	C	C	C		
					A	A			

NH2-	D	F	G	W	G	K	P	-COOH	(SEQ ID NO: 41)
3'	CTA	AAA	CCI	ACC	CCI	TTT	GG	5'	AT-REV1 (SEQ ID NO: 38)
	G	G	C		C	C			
			A		A				

FIG. 4



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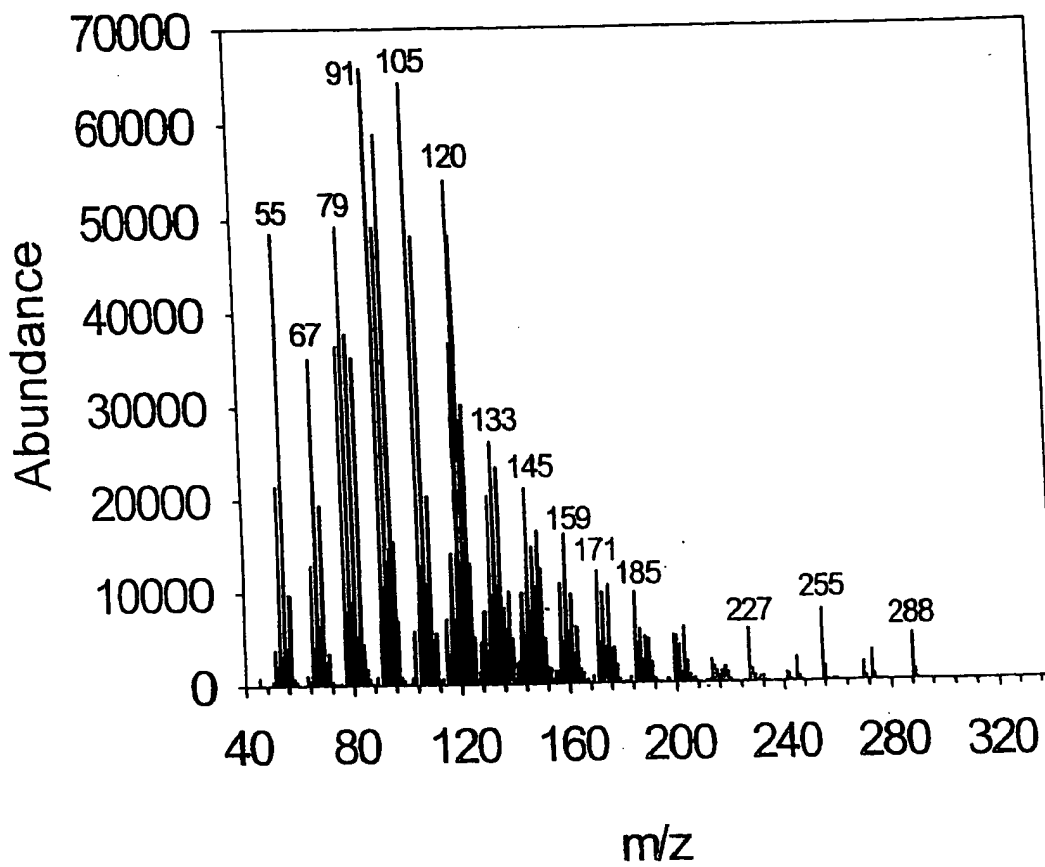


**FIG. 5A**





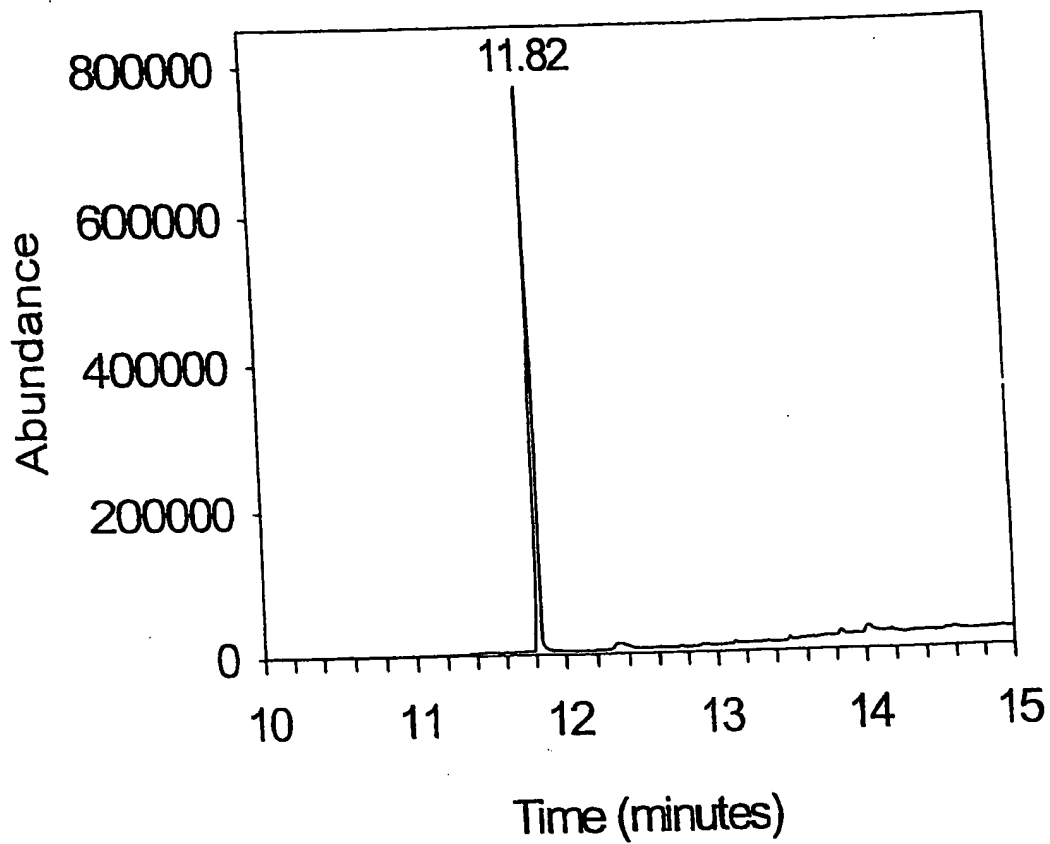
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**FIG. 5B**



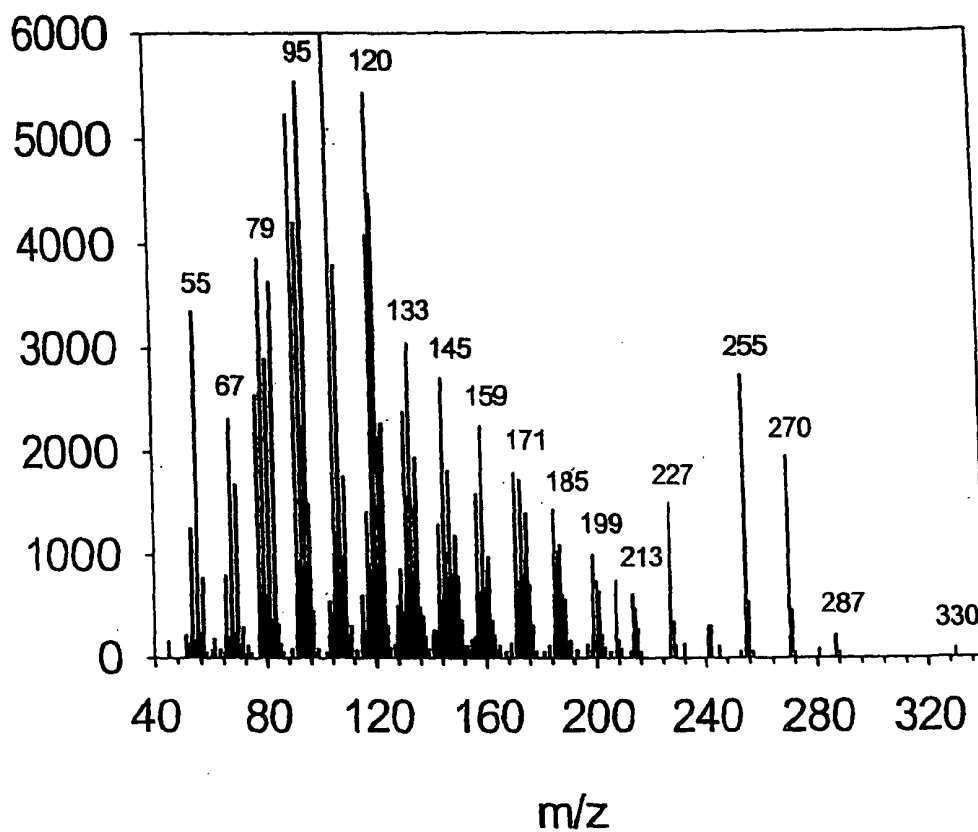
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**FIG. 5C**



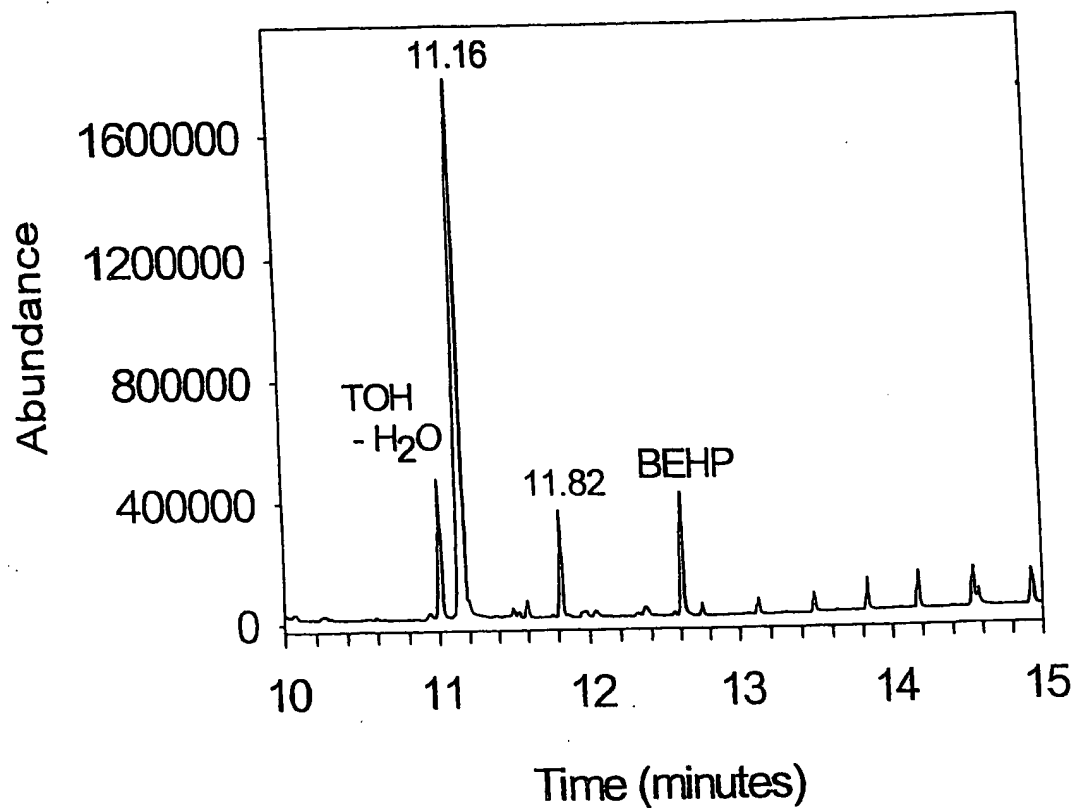
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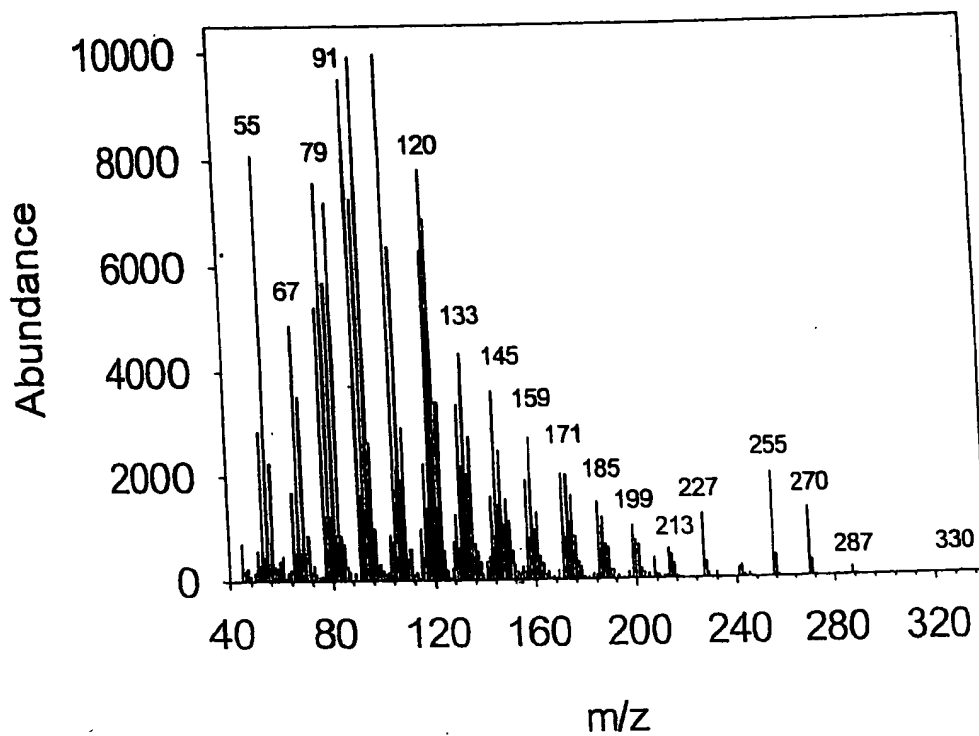
**FIG. 5D**



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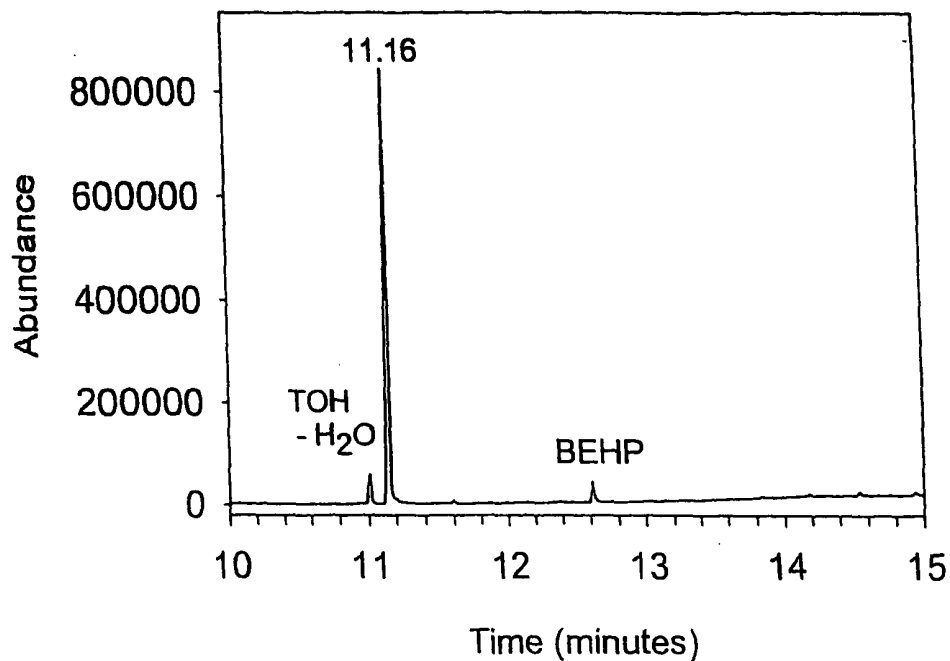
**FIG. 5E**



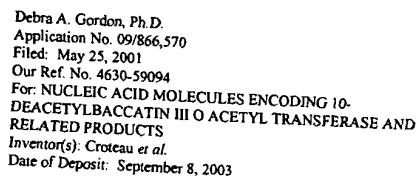
**FIG. 5F**



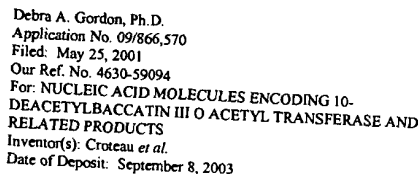
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**FIG. 5G**



**FIG. 6A**

[illegible]





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TAX1 (SEQ ID NO: 28)	MEKTDLHVNLIIEKVMVGESPRL	22
TAX2 (SEQ ID NO: 26)	MGRFNVDMIERVIVAPCLQS	22
aab61522 (SEQ ID NO: 59)	0	0
aab61523 (SEQ ID NO: 62)	MEKNVEILSREIVKSSST	22
aab95283 (SEQ ID NO: 63)	MPSLEKSYTIISRNRRVFEDQKST	25
aab97723 (SEQ ID NO: 64)	MASCIQELHFTHLHIPPVTINQQFLVHSSSTPANQSE	37
aac17079 (SEQ ID NO: 65)	NNPHHTFFILSENNNQMGEAAEQARGFHYTTTRKQVITAAALRLQ	147
aac18062 (SEQ ID NO: 66)	MNVYTMHSSKKLLKPSIPT	20
aac27152 (SEQ ID NO: 67)	MGSSYQESPPLLEDLKVTTIKESTLIFSEET	34
aac99311 (SEQ ID NO: 68)	MESGKISVETETLSKTLIKSSST	27
aad12025 (SEQ ID NO: 69)	MAPITFRKSYTIVPAEET	20
caa20531 (SEQ ID NO: 70)	MANQRKPILPLLLEKKPVVELVKSSKHTHC	29
caa64636 (SEQ ID NO: 71)	MDSKQSSELVFTVRRQKPELIAPAKET	28
caa94432 (SEQ ID NO: 72)	DFSFHVRRKCPPELIAPANET	21
cab06427 (SEQ ID NO: 73)	MSIQIKQSTMVRAEET	19
cab10318 (SEQ ID NO: 74)	METMTMKVETISKEIIKSSST	25
cab10319 (SEQ ID NO: 60)	MEAKLEVGTGKEVIKPAASE	22
cab40761 (SEQ ID NO: 61)	MPMLMATRIDIIQKLNVPYPRFQN	23

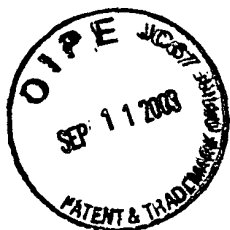
FIG. 6C



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TAX1 (SEQ ID NO: 28)	KTTLQQLSSISDNLPGVRGSIENALLIYNASPSPTMISADP	66	AKPI
TAX2 (SEQ ID NO: 26)	KNILHLSPIPNKT...RGLTNILSVYNASQ RVS.VSADP	60	AKTI
aab61522 (SEQ ID NO: 59)	.....	0	..
aab61523 (SEQ ID NO: 62)	KRIENLSSLLILSSSPMYTGALLFYAADPQNLLGFSTEET	65	SLKL
aab95283 (SEQ ID NO: 63)	DLKLSVSDLPMLSCHYIQKGCFTCPN.....LP LPAL	62	ISHL
aab97723 (SEQ ID NO: 64)	HHSLYLSNLDIIGARVETPSVYFYPSTNNRESFV.....	76	LKRL
aac17079 (SEQ ID NO: 65)	W..LPILSNLDDLPLPPLNVHVCFCYKKP...LHFTNTVA	184	YETL
aac18062 (SEQ ID NO: 66)	LQKLNLSLLDQIQIPFYVGLIFHY...ETISDNSDIT	58	LSKL
aac27152 (SEQ ID NO: 67)	RKSMFLSNVDQILN...FDVQTVHFFRPNKEFPPEMV	72	SEKL
aac99311 (SEQ ID NO: 68)	LSRYNLSYNQNIYQTCVSGFFYENPDGIEISTIRE.....	66	QL
aad12025 (SEQ ID NO: 69)	GRFPLAEWDQV..GTITHIPTLYFYDKPSESFQGNV.....	58	VEIL
caa20531 (SEQ ID NO: 70)	ETLSLSSTLNDPNEVMYATIYVEFKANGKNLD...DP	67	VSLL
caa64636 (SEQ ID NO: 71)	RETKFLSDIDQEGLR...FQIPVIQFYHKDSSMGRKDP	68	VKVI
caa94432 (SEQ ID NO: 72)	YEFKQLSDVDQQLSLR...LQLPFVNIYPHNPSLEGRDP	61	VKVI
cab06427 (SEQ ID NO: 73)	KSLLWSNIMILRTPYSHGTGAVLIYKQPDNN.EDNIHPSSSMYFDANI	67	IL
cab10318 (SEQ ID NO: 74)	LQTLLQLSIIYDHI LPPVYTVAF LFYTKNDL...ISQEH	64	SHKL
cab10319 (SEQ ID NO: 60)	R..LQLSILDL YCPGIYVSTIFFY...DLITESSEVF	58	SEN
cab40761 (SEQ ID NO: 61)	HDKKKLLITLSNLDRCPLLMYSVFFYKNTTTRDEFDSV	64	FSNL

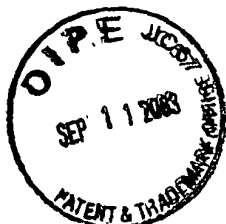
FIG. 6D



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TAX1 (SEQ ID NO: 28) REAALAKILVYXPPPPAGRL. RETENGDLVEECTGE. GAMFLMAMADNEJ SV 114  
TAX2 (SEQ ID NO: 26) REAALSKVLVYXPPPPAGRL. BNTENGDLVEECTGE. GAVFVEMADNDJ SV 108  
aab61522 (SEQ ID NO: 59) . . . . . MSQ 3  
aab61523 (SEQ ID NO: 62) KKSLSKTLPIFYPLAGRII. GS. . . . . FVECNDEGAVFIEARVDH. L LSE 108  
aab95283 (SEQ ID NO: 63) KHSLSITLTHFPPLAGRLS. TSSSGHVFLTCNDAGADEVFQAQAKSIHVSD 111  
aab97723 (SEQ ID NO: 64) QDALSEVLVPPXXPLSGRL. BEVENGKLEVFGEQGVLMVSNSSMDJAD 125  
aac17079 (SEQ ID NO: 65) KTAALAE TLVSXXAFAAGELV. TNPTGEPEILCENNRGVDFVEAGAD. VELRE 232  
aac18062 (SEQ ID NO: 66) ESSLSSETLTLXXHVAGRYN. GT. . . . . DCVIECNDDQGIGYVETAFD. VELHQ 103  
aac27152 (SEQ ID NO: 67) RKALVKLMDAYEFLAGRLRVRDPPSSGRLDVDCNGA. GAGFVTASDYTL EE 121  
aac99311 (SEQ ID NO: 68) QNSLSKTLVSXXPPFAAGKVV. KN. . . . . DY. IHENDDGIEFVEVRI. RCRMND 110  
aad12025 (SEQ ID NO: 69) KTSLSRVLVHFFXPMAGRLR. WLP. RGRFELNENAE. GVEFIEAESEEGKLS D 106  
caa20531 (SEQ ID NO: 70) RKALSELVHVXXPLSGKLMBSSENGKQLVYLGAE. GVPFEVATSTL DSS 116  
caa64636 (SEQ ID NO: 71) KKAIAETLVFVXXPPFAAGRL. BEGNRKKLMVDCTGE. GIMFVEMADADVTL EEQ 116  
caa94432 (SEQ ID NO: 72) KEAIGKALVFVXXPLAGRL. BEGPGRKKLFVECTGE. GILFIEADADVSL EE 109  
cab06427 (SEQ ID NO: 73) IEALSKALVPPFXPMAGRLK. IN. GDRYEIDCNAE. GALFVEMESSHVLE D 114  
cab10318 (SEQ ID NO: 74) KTSLSSETLTKKFXPLAGRIT. GV. . . . . TVDCTDGAIFVDARVNNCP L TE 108  
cab10319 (SEQ ID NO: 60) KLSLSSETLSRRFXPLAGRIE. GL. . . . . SISCNDEGAVFTEARTDL. LLPD 101  
cab40761 (SEQ ID NO: 61) KLGLEETMSVWXXPAAGRLGLDGGGCKLNIRCNDDGGAVMVEAVATGVK LSE 114

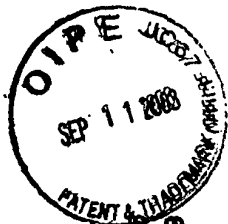
FIG. 6E



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TAX1 (SEQ ID NO: 28) LGD.FDDSNPSFQ.QLLFSPLDITNF.....KDLSSLVVQVYTRTTGG.GE 156  
TAX2 (SEQ ID NO: 26) LQD.FNEYDPSFQ.QLVFNLRDVTNI.....EDLHLLTVQVYTRTTGG.GE 150  
aab61522 (SEQ ID NO: 59) ILEN.PNPN.ELNKLHPFEFHEVSDVP.....LTVQLTFFTEGG.GL 41  
aab61523 (SEQ ID NO: 62) FLKC.PVPE.SLELLIP...VEAKSRE...AVTWELLIQANFFESGG.GL 149  
aab95283 (SEQ ID NO: 63) VIAGIDVPD.VVKEFFTYDR..AVSYE...GHNREILAVQVTELN...DGY 153  
aab97723 (SEQ ID NO: 64) LGDLTV?NPAPWLPLIFRNPGEEAYKI.....LEMEILLIAQVYTRTTGG.GE 169  
aac17079 (SEQ ID NO: 65) LNLV.DPDE.SIAKLVPIKKHG.....VIAIQVTOIKKG.SI 286  
aac18062 (SEQ ID NO: 66) FLVG.EESN.NLDLLVGL...SGFLSE...TETPELAAIQLNMEKKG.GL 144  
aac27152 (SEQ ID NO: 67) LGD.LVYPNPAPFAQLVTSQIQ.SLPKD.....DQELFFVFIITSEKKG.GE 163  
aac99311 (SEQ ID NO: 68) ILKY.ELRS.YARDLVLPKRVTVGSED...TTA...IVQLSHEDCG.GL 160  
aad12025 (SEQ ID NO: 69) FXD.FS.PTPEFENLM.PQVNYKNPIE.....TIELFLAQVTKKKG.GI 147  
caa20531 (SEQ ID NO: 70) LN.....YIENLDDQVALRLVPEIEIDYESNVCYHPLALQVTKKKG.GE 180  
caa64636 (SEQ ID NO: 71) FGDELQPPFPCLZ.ELLYDVPDSAGV.....LNCPELLLIQVTRLRKG.GE 159  
caa94432 (SEQ ID NO: 72) FWDTLPSYSLSSMQNNIIHNALNSDEV.....LNSPELLLIQVTRLRKG.GE 153  
cab06427 (SEQ ID NO: 73) FGD.FR.PNDELHHRVMVPTCDYSKGIS.....SFEELLMVQLTRERKG.GV 156  
cab10318 (SEQ ID NO: 74) FLKC.POFD.ALQQLPLDVPDNPYVA...AATWEILLVKAATYFGGG.GM 152  
cab10319 (SEQ ID NO: 60) FLRN.LNTD.SLSGFLPTLAAGE...S...PAAWEILLSVKVTFFGGGGV 143  
cab40761 (SEQ ID NO: 61) LGDLTQYNEEYENLVYKPSLDGDFSV.....MEELVVAQVTRRACG.GY 156

FIG. 6F



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TAX1 (SEQ ID NO: 28) VVGVSFHHGVGVCDEGRGAQAQLKGLAEMAA.GEVKLS.199LEEIW  
TAX2 (SEQ ID NO: 26) VVGTRFHHSVSDGKIGIGQLLKGMGEMAA.GEFKPS.189LEEIW  
aab61522 (SEQ ID NO: 59) ALGIGLSKKLCLDALSGLIFFVNSHAAFAAGQTDE.80IITPSF  
aab61523 (SEQ ID NO: 62) VITICVSHKITTATSLAMFIRGHAESGG...L...GITLPSF 187  
aab95283 (SEQ ID NO: 63) FIGCSVNHAVTDGTSLWNFINTEVSGAKNVT...RQPDFTRRESVL 198  
aab97723 (SEQ ID NO: 64) SLGIRLCHCICDGFAGMQHGLGSHAAATKTKLIAD...PEPWW 209  
aac17079 (SEQ ID NO: 65) VVGCTFDEHVRVADAYSMNMMLLSHAEISSDVPI...SCV...PSF 305  
aac18062 (SEQ ID NO: 66) VIGAQFNHIIIGDMFTMSTHNMNSHAKACBVGIKE...VAHETTF 183  
aac27152 (SEQ ID NO: 67) AMGISSTNHTTFDELSFKTLENLSLH...EKPLS...TPPCN 201  
aac99311 (SEQ ID NO: 68) AVAFGISKKVADGGGTIASZMKDHAASCYLSS...HHVPTLL 191  
aad12025 (SEQ ID NO: 69) SLSVNVSHAVDGSQSAHLZISEHGRLLB...GEPL...TVPL 185  
caa20531 (SEQ ID NO: 70) TIGTALTAAVCDGYGVAQIIHALTELA.AGKTEPS...VKS VW 199  
caa64636 (SEQ ID NO: 71) IFALRLNHTMSPDAPGLVQMTAVGEMAB.GGSAPS...ILP VW 198  
caa94432 (SEQ ID NO: 72) IFGLCFNHTMADGFCIVQMKATAEIAA.GAFAPS...ILP VW 192  
cab06427 (SEQ ID NO: 73) SIGFAQHSHVCDGMAHFEHNNSHARIK...GLLPA...LEP VH 194  
cab10318 (SEQ ID NO: 74) AIGICITHEKKIADAASISTTIRSHAAATAGGENDA...AAMESP VF 193  
cab10319 (SEQ ID NO: 60) AVSVSVSHKICDIAASLVTHVKDHAATTAKGKSN...STIE...F 181  
cab40761 (SEQ ID NO: 61) SIGIGTSLSLFDGISAYETHIHAAHNSHINHNSKSKITNKKEDVVIKE VH 204

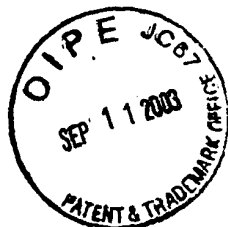
FIG. 6G



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TAX1 (SEQ ID NO: 28) NRELVKLD...DP...KYLQFFHF...EFLRAP...SIV...EKIVQ 227  
TAX2 (SEQ ID NO: 26) NREMVKPE...DI...MYLQFDFH...DFIHPP...LNL...EKSIQ 221  
aab61522 (SEQ ID NO: 59) DLAKMFPPCDIEN...LNMATGITKE...NIVT...107  
aab61523 (SEQ ID NO: 62) TASEVFPKPLDEL...PSKPMDRKEEVEEMS.CVT...218  
aab95283 (SEQ ID NO: 63) ISPAVLKVPQGPKVTFDENAPLRERIFSRESIQELKAVVNKK...243  
aab97723 (SEQ ID NO: 64) DBETFKPR...NP...PMVKYPPH...EYLPIEERSNLTNSLWD...TKPLQ 249  
aac17079 (SEQ ID NO: 65) RBSLLNPRRPLVMDPSIDQIYMPVTSLPPPPQETTNPENLLAS...347  
aac18062 (SEQ ID NO: 66) GLAPIMPSAKVLN...IPPPPSFEG...VKFVS...210  
aac27152 (SEQ ID NO: 67) DBTLLKARDPPS...VAFPHH...EL...VKFQDCETTTVFEEATSEHLDF 242  
aac99311 (SEQ ID NO: 68) VSDSIFPRQDNI...CEQFPTSK...NCVE...216  
aad12025 (SEQ ID NO: 69) DBKKILWAGEPLPPFVSPPKFDDHK...EFDQPPFELIGETDNVEERKKKTIV...232  
caa20531 (SEQ ID NO: 70) QBERLVGKIDNKP...GKVPGSII...D...GFLATSAYLPT...TDVVT 237  
caa64636 (SEQ ID NO: 71) CBELLNAR...NP...PQVTCETHH...EYDEVRODTKGTIIPV...DDMVH 236  
caa94432 (SEQ ID NO: 72) QRALLTAR...DP...PRITFRHY...EYDQVVDKSGGLIPV...NSKID 230  
cab06427 (SEQ ID NO: 73) DRYLHLRPRNPPQI...KYSMS...QFE...PFVPSLPNELLDGKTNKSQ...235  
cab10318 (SEQ ID NO: 74) AGANFYPPANEAF...KLPADDEQAGKRS.SIT...221  
cab10319 (SEQ ID NO: 60) AETTIYPPPPSHM...YEQFPSTDSDSNITSKYVL...213  
cab40761 (SEQ ID NO: 61) DBRNLLVNRDAVRETNAAAICHLVQLIKQAMMTYQEQNRNLELPD SGFVI 256

FIG. 6H



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RELATED PRODUCTS  
Inventor(s): Croteau *et al.*  
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TAX1 (SEQ ID NO: 28) TYIIIDFEETINYIKQSV.MEEC. . . . . KEF 251  
TAX2 (SEQ ID NO: 26) ASMVISFEERINYIKRCM.MEEC. . . . . KEF 245  
aab61522 (SEQ ID NO: 59) RRFVFLRSSVESLRERFSGNK. . . . . KIR.AT 133  
aab61523 (SEQ ID NO: 62) KRFFVFDASKIKKKIRAK.ASRN. . . . . LVKNPT 244  
aab95283 (SEQ ID NO: 63) KWLTTVDNGEIDGVELLGKQSNCKLNGKENGILTEMLESLEFGRNDVSKPV 293  
aab97723 (SEQ ID NO: 64) KCYRISKEFQCRVKSA.QGED. . . . . PTL 273  
aac17079 (SEQ ID NO: 65) RIYYIKANALQELQTLASSKN. . . . . GKRT 373  
aac18062 (SEQ ID NO: 66) KRFFVFENENATIRLRKEATEEDGGDD. . . . . DQKKRPS 244  
aac27152 (SEQ ID NO: 67) KIFKLSSEQIKKKIKKERA..SET. . . . . SNG 265  
aac99311 (SEQ ID NO: 68) KTFIFPPEAEIKKKSKAVEFG. . . . . IEKPT 242  
aad12025 (SEQ ID NO: 69) VMLPLSTSQLQKLRKANGSKH. . . . . SDP 257  
caa20531 (SEQ ID NO: 70) ETINIRAGDIKKRLKDSM.MKEC. . . . . EYL 261  
caa64636 (SEQ ID NO: 71) KSEFFFGPSEVSALRRFV.PHHL. . . . . RK. 258  
caa94432 (SEQ ID NO: 72) QLEFFFSQLQISTLRQTL.PAHL. . . . . HD. 253  
cab06427 (SEQ ID NO: 73) TLEILSREQINTLKQKLDLSNN. . . . . TTR 260  
cab10318 (SEQ ID NO: 74) KRFFVFEASKVEDLRTKAASEE. . . . . TVDQPT 248  
cab10319 (SEQ ID NO: 60) KRFFVFEPSKIAELKKHAASES. . . . . VVPPT 239  
cab40761 (SEQ ID NO: 61) KTFEELNGDAIESMKKKSLEG. . . . . 276

FIG. 61



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TAX1 (SEQ ID NO: 28)	. CS . . . SFEVVASMTWIAARTRAFIQIPESSEY . . . . . VKILFGMDMNSNFN	291
TAX2 (SEQ ID NO: 26)	. FS . . . AFEVVVLLIILARTKSFRIPPNEY . . . . . VKIIFPIIDMNSFD	288
aab61522 (SEQ ID NO: 59)	RVE . . . . . VLSVFIWSRF . . . MASTNHDDKTKGIYT . . . LIHPYNNLRRQAD	173
aab61523 (SEQ ID NO: 62)	RVE . . . . . AVTALEFVBCV . . . TKVSRLLSSLTPTTSV . . . LQILYNNLGGKVD	284
aab95283 (SEQ ID NO: 63)	AVEISSFQSLCALLLWBAITRARKLPSSKTTT . . . . . FRMAYNCBHHLS	336
aab97723 (SEQ ID NO: 64)	VCS . . . TFDAMAAHIIWBSWVKALDVKPLDYN . . . . . LRLTFSVNVBTRLE	315
aac17079 (SEQ ID NO: 65)	KLE . . . . . SFSALFLWKLVAEHAADVPPIKTSK . . . . . LGIVYDGRRLM	413
aac18062 (SEQ ID NO: 66)	RVD . . . . . LVTALFLSKSLIEMDCAKKEQTKSRPSL . . . MVHMMNLBTK	286
aac27152 (SEQ ID NO: 67)	NVRVTGFNVVTALVWCKALSVAEEGEET . NLERESTILYAYDIAGBL .	313
aac99311 (SEQ ID NO: 68)	RVE . . . . . VLTALFLSCATVAGKSAKNNNCGQSLPFPVLQAINLBPIL	287
aad12025 (SEQ ID NO: 69)	AKGFTTRYETVTGCHVWBCACCKARGHSPQPT . AL . . . . . GICIDTBSM .	299
caa20531 (SEQ ID NO: 70)	KESFTTYEVLSSYIWKLRSRALKLNPDGIT . . . . . V . LGVAYGIBHVLD	304
caa64636 (SEQ ID NO: 71)	CS . . . TFEELLTAVLWBCRTMSLKPDPEEE . . . . . VRALCIYNAASB	299
caa94432 (SEQ ID NO: 72)	CP . . . SFEVLTAYVWBLRTIALQFKPEEE . . . . . VRFLCVMNLSKID	293
cab06427 (SEQ ID NO: 73)	. . . LSTYEVVAHVWBSVSKARGLSDHHEEI . KL . . . . . IMPYDGBSIN	300
cab10318 (SEQ ID NO: 74)	RVE . . . . . SVTALIWKCF . . VASSK . . . . . TTTCDHKV . . . LVQLANLRSKIP	286
cab10319 (SEQ ID NO: 60)	RVE . . . . . AIMSIIWBCA . . RNSRSNLLIIPRQAV . . . . . MWQAMDILRIP	279
cab40761 (SEQ ID NO: 61)	. FMCSSFEFLAAHLWKARTRALGLRRDA . . . . . MVCLQFAVDIRKRT	318

FIG. 6J





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TAX1 (SEQ ID NO: 28) P. P L P S G Y X G N S I G T A C A V D N V Q D . . . L L S G . S L L R A I M I I K S S V S L . . . 334  
TAX2 (SEQ ID NO: 26) S. P L P K G Y X G N A I G N A C A M D N V K D . . . L L N G . S L L Y A L M L I K S S F A L . . . 328  
aab61522 (SEQ ID NO: 59) P. D I E D N M F G N I M R F S V T V P M M I I N . . . E N D E E K A S L V D Q M R E E I R K I . . . 217  
aab61523 (SEQ ID NO: 62) S. . L C E N T I G N . M L S L M I . . . L K N E E . . . A A I E R I Q D V V D E I R R A E E I F . . . 324  
aab95283 (SEQ ID NO: 63) P. K L N P E Y F G N A I . . . . . Q S V P T F A T A A E V L S R D L K W C . . . 368  
aab97723 (SEQ ID NO: 64) T L K L R K G F Y G N V V C L A C A M S S V E S . . . L I N D . S L S K T T R L V Q D A R L R V . . . 359  
aac17079 (SEQ ID NO: 65) E. K E N N T Y F G N V L S V P F G G Q R I D D L I S K P L S W V T E E V H R F L K . . . . . 455  
aac18062 (SEQ ID NO: 66) L. A L E N D V S G N F E . . . . . I V V N A . . . E S K I T V A P K I T D L T E S L G S A . . . 323  
aac27152 (SEQ ID NO: 67) N P E L P P S Y T G N A V L T A Y A K E K C K A . . . L L E E . P F G R I V E M V G E G S K R I . . . 357  
aac99311 (SEQ ID NO: 68) . . . L P Q N S V G N L V S I Y F S R T I K E N D Y L N E K E Y T K L V I N E L R K E K Q K I . . . 331  
aad12025 (SEQ ID NO: 69) E P P L P R G Y F G N A T L D V V A A S T S G E . . . L I S N . E L G F A A S L I S K A I K N V . . . 343  
caa20531 (SEQ ID NO: 70) P. P L P K G Y X G N A Y I D V Y V E L T V R E . . . L E E S . S I S N I A N R V K K A K T A Y E K 350  
caa64636 (SEQ ID NO: 71) P. P L P T G Y X G N A F A F P V A V E T A A K . . . L S K N . P L G Y A L E L V K K T K S D V . . . 342  
caa94432 (SEQ ID NO: 72) I. P L . . G Y X G N A V V V P A V I T T A A K . . . L C G N . P L G Y A V D L I R K A K A . . . 334  
cab06427 (SEQ ID NO: 73) N P S L P K G Y C G N V V F L A V C T A T V G D . . . L S C N . P L T D T A G K V Q E A L K G L . . . 344  
cab10318 (SEQ ID NO: 74) S. L L Q E S S I G N L M F S S V . . . L S I G R . . . G G E V K I E E A V R D L R K K E E L . . . 328  
cab10319 (SEQ ID NO: 60) S. S V A P K D V I G N L Q S G F S . . . L K K D A . . . E S E F E I P E I V A T F R K N E E R V . . . 321  
cab40761 (SEQ ID NO: 61) T. P L P E G F S G N A Y V L A S V A S T A R E . . . L L E E L T L E S I V N K I R E A K S I . . . 362

FIG. 6K



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TAX1 (SEQ ID NO: 28)	..NDNF.KSRAVVKPSELVDN.....MNHENVVAFADW	367
TAX2 (SEQ ID NO: 26)	..NENF.KSRIILTKPSTLDAN.....MKHENVVGCGDWRNL	361
aab61522 (SEQ ID NO: 59)	..DAVYVKKLQEDNRGHL.....EFLNKQASGFGVNGEIVSFSFTSLCKE	259
aab61523 (SEQ ID NO: 62)	..S...LNCKEMSKSSSRIFELLEIG.KVYGRG...NEMDLWMSNFWCKL	366
aab95283 (SEQ ID NO: 63)	..ADQLNQSAAHQDGRIRSVVADWEANPRCFPLGNADGASVTMGSSPRF	416
aab97723 (SEQ ID NO: 64)	..SEDYLRSMVDYVDVKRPKR.....LEFGGKLTITITQWTRF	393
aac17079 (SEQ ID NO: 65)	..SVTKEHFLNLIDWVETCRPTPAVSRIYSVGSDGPAFVVS	500
aac18062 (SEQ ID NO: 66)	..CGEIISEVAKVDDAEVSSMVLNSVREFYYEWGKGKGVFLYT	371
aac27152 (SEQ ID NO: 67)	..TDEYARSAIDWGELYKG.....FPHGEVLVSFWWKL	388
aac99311 (SEQ ID NO: 68)	..KNLSREKLTYYVAQMEEFVKSLKEFDISNEL.....DIDAYLSDWCRF	374
aad12025 (SEQ ID NO: 69)	..TNEYVVMIGIEYLKNQKDLKKFQDLHALGSTEGPFYGNPNLG	391
caa20531 (SEQ ID NO: 70)	..GYIEELKNTERLMRDDSMFE.....GVSDGLFFLTDWRNI	386
caa64636 (SEQ ID NO: 71)	..TEEYMKSVADLMVLKGRPH.....FTVVRTFLVSDVTRG	376
caa94432 (SEQ ID NO: 72)	..TMEYIKSTVDLMVIKGRPY.....FTVVGSMMSDLTRI	388
cab06427 (SEQ ID NO: 73)	..DDDYLRSAIDHTESKPGGL...PVPYMGSPSEKTLTY..PNVLVN	386
cab10318 (SEQ ID NO: 74)	..GTVILDEGGSSDSSSMIGSKLANLMLTNYSRLSYETHPEYTVS	376
cab10319 (SEQ ID NO: 60)	..NEMIKESLQGNLTIGQSLLSLMAETVSES.....TEIDRYIMSS	363
cab40761 (SEQ ID NO: 61)	..DQGYINSMYMEALGGSNDGNLPP.....LKELTLSISDWT	397

FIG. 6L



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TAX1 (SEQ ID NO: 28) G . F D E V D E F G H G N A Y S V S P V Q Q S . . . A L A M Q N Y F L F L K P S K N K P D G I K I L M 414  
TAX2 (SEQ ID NO: 26) G . F Y E A D E F G H G N A Y N V S P M Q Q R E H E L A M Q N Y F L F L R S A K N M I D G I K I L M 410  
aab61522 (SEQ ID NO: 59) E V Y . E A D E F G H G K E L W V A S . . . . . A R M S . Y K N L . . . V A F I D T K E G D G I E A W I 300  
aab61523 (SEQ ID NO: 62) G L Y . D A D E F G H G K E Y W V T G . . . . . R G T S H F K N L . . . M L L I D T K D G E G I E A W I 408  
aab95283 (SEQ ID NO: 63) E M Y . D N D E F G H G R E Y A V R S . . . . . G R S N K F D G K I S A . F P G R E G N G T V D L E V 459  
aab97723 (SEQ ID NO: 64) E M Y E T A D E F G H G K E Y Y A G P I . . . D L R P T P Q V C V L L P Q G G V E S G N D Q S M V V C L 441  
aac17079 (SEQ ID NO: 65) E V N . Q V D E F G H G S E Y F G S Y . . . . . H F P W G G S A G Y V M P M P S S V D D R D W M V Y L 544  
aac18062 (SEQ ID NO: 66) E L Y . E V D E F G H G I E S L V D T . . . . . T A V P F . . . . . G L I V L M D E A P A G D G I A V R A 412  
aac27152 (SEQ ID NO: 67) G . F A E V E Y P H G K E K Y S C P V Y H R K D I . . . . . V L L F P D I D G D S K G V Y V L A 431  
aac99311 (SEQ ID NO: 68) E F Y . D V D E F G H G K E I W V . C . . . . . L F Q P Y I K N C V V M M D Y P F G D D Y G I E A I V 417  
aad12025 (SEQ ID NO: 69) E . M Y G L D E F G H G K E F Y T G P G T H D F D G D . . . . . S L I L P D Q N E D G . S V I L A T 433  
caa20531 (SEQ ID NO: 70) G W F G S M D E F G H G N E Y N L R P L . T Q R E S T V H V G M I L K P S K S D P S M E G G V K V I M 435  
caa64636 (SEQ ID NO: 71) G . F G E V D E F G H G K A Y Y G G P A K G G V G A I P G V A S F Y I P F K . N K K G E N G I V V P I 424  
caa94432 (SEQ ID NO: 72) G . V E N V D E F G H G K A I F G G P T T T G A R I T R G L V S F C V P F M . N R N G E K G T A L S L 416  
cab06427 (SEQ ID NO: 73) E . Y Q A M D E F G H G S E T F F G I S N I F Y D G Q . . . . . C F L I P S R D G D G . S M T L A I 428  
cab10318 (SEQ ID NO: 74) E L Y . E A S T E F G H D S E Y W V V G . . . . . N V S P V L G N L . . . A M L I D S K D G Q G I E A F V 418  
cab10319 (SEQ ID NO: 60) E F Y . E V D E F G S S E Y W V V G Y . . . . . A S H T I Y D N M V G V V L I D S K E G D G V E A W I 407  
cab40761 (SEQ ID NO: 61) E . F H N V G T G N G . . . . . G E P A D Y M A P L C P P V P Q V A Y F M K N P K D A K G V L V R I 441

FIG. 6M



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TAX1 (SEQ ID NO: 28) F L L S K K S E K I E M E A M M K . K Y V A K V . . . . .  
TAX2 (SEQ ID NO: 26) F M P A S M V K P E K I E M E V T I N . K Y V A K I C N S K L . . . . .  
aab61522 (SEQ ID NO: 59) N L D Q N D M S R R E A D E E L L R Y V S S N P S V M V S V S . . . . .  
aab61523 (SEQ ID NO: 62) T L T E E Q M S L E E C D Q E L L E S A S L N P P V L I . . . . .  
aab95283 (SEQ ID NO: 63) V L S P E T M A G I E S D G E F M R Y V T N K . . . . .  
aab97723 (SEQ ID NO: 64) C L P P T A V H T E T R L L S L N D H K . . . . .  
aac17079 (SEQ ID NO: 65) H L T K G Q L R F I E E E A S H V L K P I D N D Y L K I . . . . .  
aac18062 (SEQ ID NO: 66) C L S E H D M I Q E Q Q H H Q L L S Y V S . . . . .  
aac27152 (SEQ ID NO: 67) A L P S K E M S K E Q H W F E D T L C . . . . .  
aac99311 (SEQ ID NO: 68) S F E Q E K M S A E K N E Q L L Q F V S N . . . . .  
aad12025 (SEQ ID NO: 69) C L Q V A H M E A E K K H F Y E D I . . . . .  
caa20531 (SEQ ID NO: 70) K L P R D A M V E F K K R E M A T M K K L Y F G D T N . . . . .  
caa64636 (SEQ ID NO: 71) C L P G F A M E T F V K E L D G M L K V D A P L . . V N S N Y A I I R P A L . .  
caa94432 (SEQ ID NO: 72) C L P P P A M E R E T R A N V H A S L Q V K Q V V D A V D S H M Q T I Q S A S K  
cab06427 (SEQ ID NO: 73) N L F S S H I S R E K K Y F Y D F . . . . .  
cab10318 (SEQ ID NO: 74) T L P E E N M S S E Q N P E L L A F A T M N P S V L V . . . . .  
cab10319 (SEQ ID NO: 60) S L P E E D M S V E V D D Q E L L A Y A V I N P P V V A . . . . .  
cab40761 (SEQ ID NO: 61) G L D P R D V N G E S N H F L D C . . . . .

FIG. 6N



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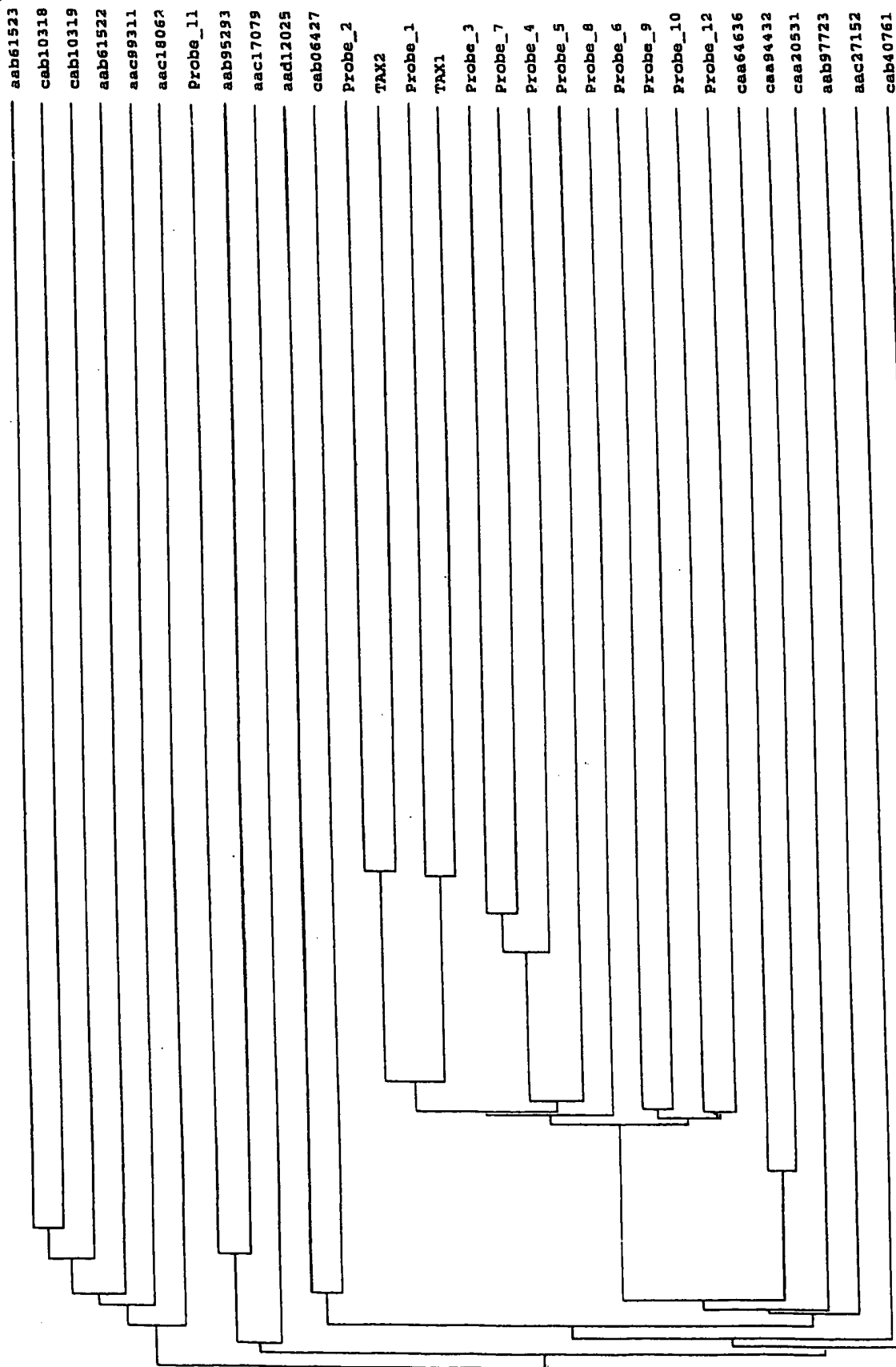
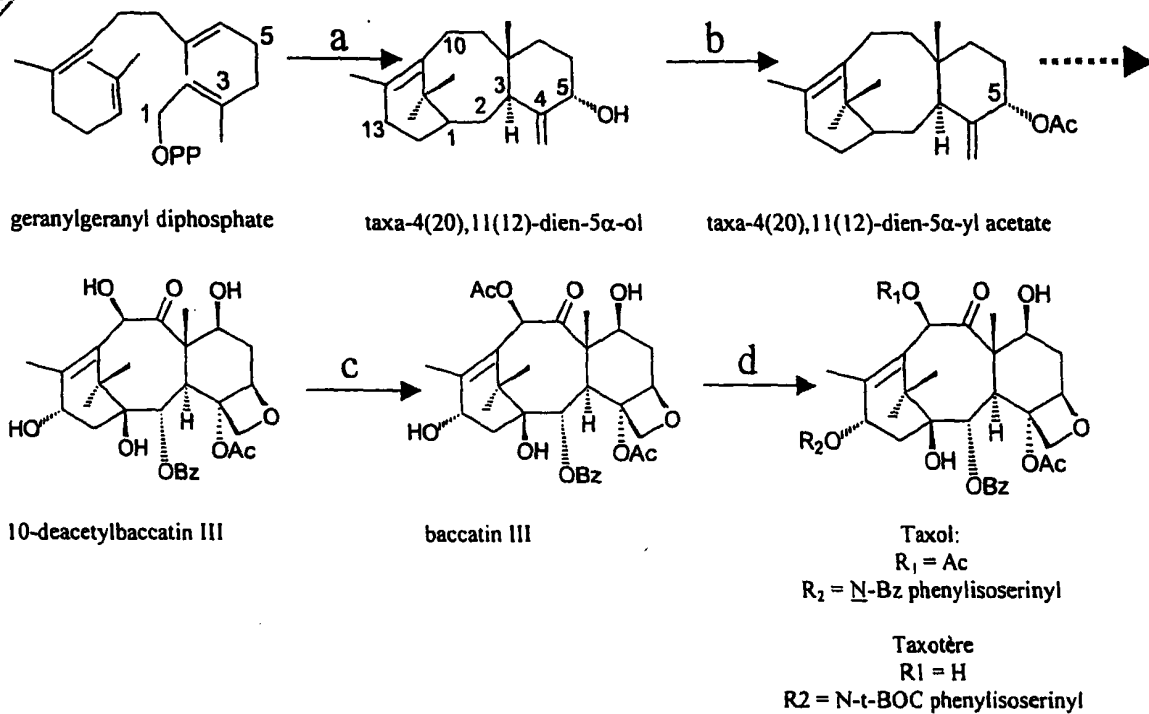


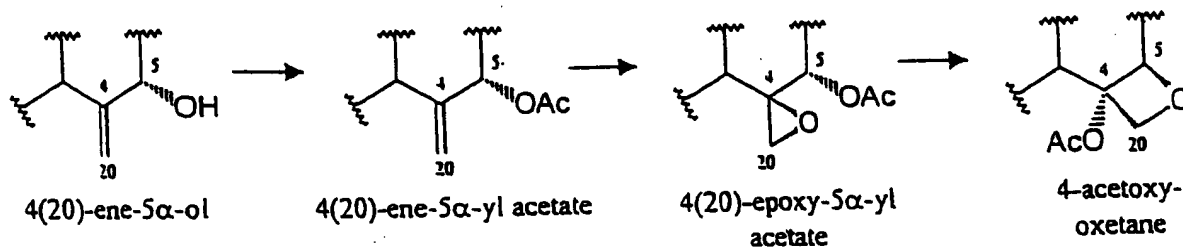
FIG. 7



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**FIG. 8A**



**FIG. 8B**



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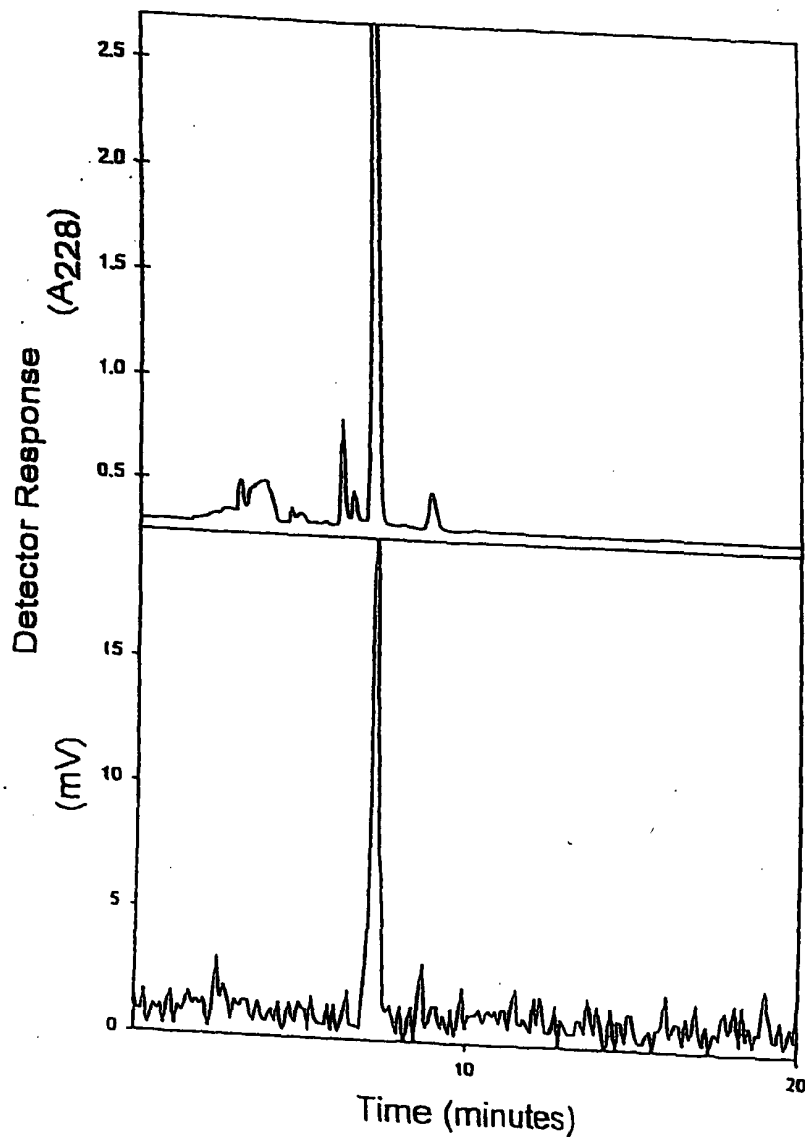


FIG. 9A

FIG. 9B





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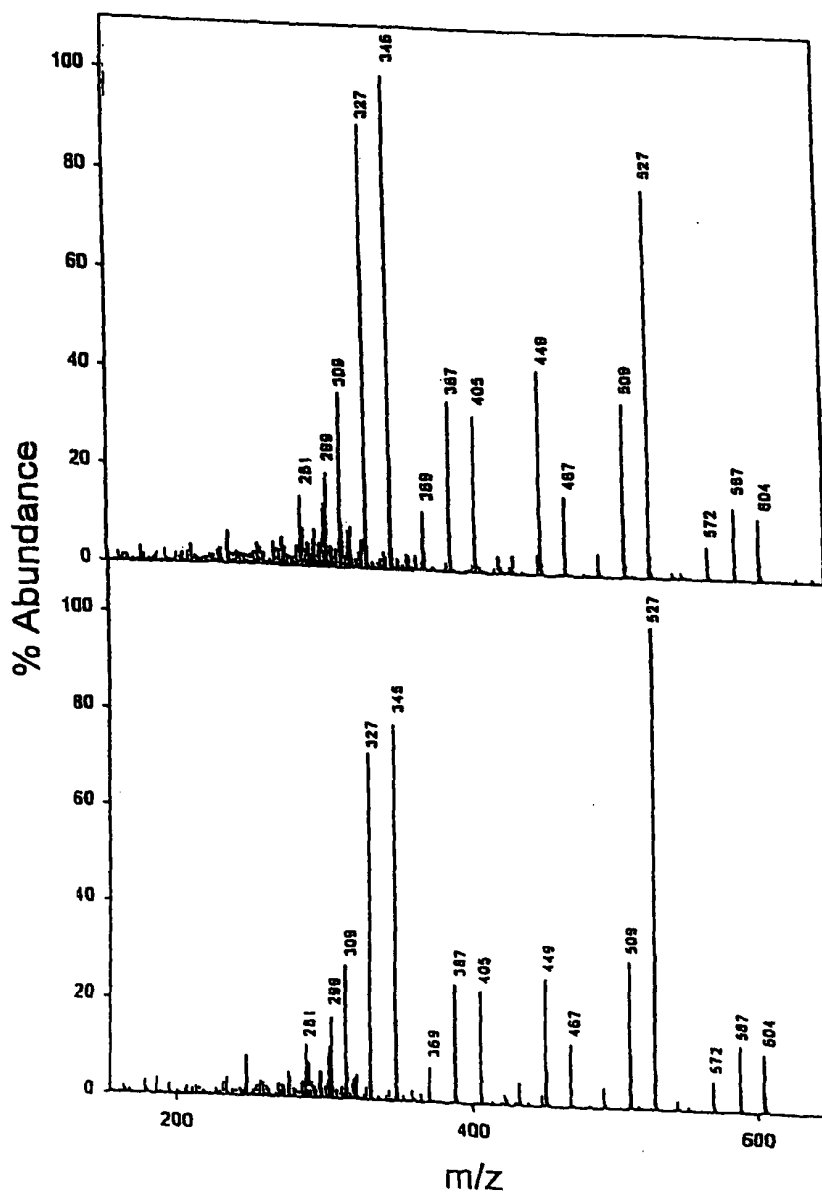


FIG. 10A

FIG. 10B